

o7520 Origin Server

Deliver video to a wide range of clients



The Origin Server greatly increases network video system flexibility by delivering video to a very wide range of clients, both in and outside the wired LAN.

Interfaces

- Four 802.3 100/1000 Ethernet (RJ-45) sockets plus IPMI
- Serial, VGA, 4 x USB

Inbound Streams

- Up to 50 inbound streams
- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
 - RTP
 - UDP
 - IP unicast
 - IP multicast via IGMP
- RTMP/RTMPS (FLV container)
- RTSP
- HLS (HTTP Live Streaming) (HTTP(S))

Output Streams

- Streaming up to 4 Gbps/2000 clients (HLS & RTMP)
- Single program MPEG-2 transport streams (ISO/IEC 13818-1)
 - RTP
 - UDP
 - IP unicast
 - IP multicast
 - IGMP Join Group for enhanced switch compatibility
- RTMP/RTMPS (FLV container)
- HLS single streams (HTTP(S))
- HLS Adaptive Bit Rate (ABR) multi-streams (HTTP(S))

Outbound Channel Management

- Channel announcement via SAP/SDP
- Multicast/unicast address selection (automatic or manual)
- Configurable name, number and group membership

High Availability

- Two Origin Servers can be configured in a cluster to provide high availability of live streams using a failover mechanism

Features & Benefits

- Extend the reach of video beyond the local network to remote sites
- Stream content to mobile, desktop and remote End-Points
- Accept streams from all VITEC head-end equipment
- Deliver video directly to a Content Delivery Network for distribution to remote End-Points
- Stream premium audio-visual content to any IPTV End-Point
- Stream up to 4 Gbps/2000 clients (HLS & RTMP)
- Configure two servers in a cluster to provide high availability of live streams using a failover mechanism

Management

- Flexible network port configuration enables streaming and administration interfaces to be on separate networks
- Fully integrated with the following management tools:
 - Admin level management using Avedia Server Director and Site Manager applications
 - HTTP/HTTPS device interface: recommended browser: Chrome®
- SNMP
- SSDP device discovery
- RESTful API
- Serial RS232 Admin Port
- Event logging via Syslog (local and remote)
- Firmware upgrade & configuration backup/restore via TFTP
- Access via VGA monitor and USB keyboard/mouse

Network

- Linux dual IPv4/IPv6 stack
- DHCP/DHCPv6 or Static IP addressing
- Supports HTTP proxy
- 4 x IEEE 802.3u 100/1000Mbps MDIX Ethernet interface
- Ethernet link aggregation
- Ethernet link redundancy
- Firewall enables separate streaming and administration interfaces

System

- Based on CentOS 7

Environment

- Operating Temperature Range: 10° to 35°C (50° to 95°F)
- Non-operating Temperature Range: -40° to 70°C (-40° to 158°F)
- Operating Humidity Range: 8% to 90%
- Non-operating Humidity Range: 5% to 95%

Physical Format

- Compact 1U rack-mounted standard 19" chassis
- Dimensions: W: 426mm x D: 370 x H: 43mm (chassis only)
- Weight: 5.65kg

Protocols

IP (RFC 791), UDP (RFC 768), TCP (RFC 793), ARP (RFC 826), DNS, (RFC 1035), DHCP (RFC 2131), ICMP (RFC 792), IGMP (RFC 3376), TFTP (RFC 1350), HTTP (RFC 2616), Syslog (RFC 3164), NTPv3 (RFC 1305), NTPv4 (RFC 5905), SAP (RFC 2974), SDP (RFC 4566), RTP (RFC 3550), SNMP (v1, v2c - RFC 1901)

Regulatory

- CE:
 - IEC 62368-1: 2014
 - EN 62368-1:2014+A11:2017
 - EN55032:2012 + corrigenda Aug 2012 & Dec 2012
 - EN55024:2010 + A1:2015
 - EN 61000-3-2:2014
 - EN 61000-3-3:2013
- UL/CSA:
 - UL62368-1:2014
 - CSA C22.2 No. 62368-1, Rev. February 17, 2012
- FCC:
 - 47CFR:2011 Part 15, Sub Part B
 - ANSI C63-4:2014
- Australia/New Zealand:
 - AS/NZS 62368.1:2018

Power

- Internal AC input power supply: 100-240V 60-50Hz 3-1.5A Max
- Power consumption: Typical 70W, Max 120W

In the Box

- o7520 1U Origin Server
- Power cord
- Product Safety Brochure (hard copy)

Ordering Information (P/N)

- 18366-xx (avstr-o7520) - o7520 Origin Server 1U, where x = uk, eu, au or us